



**Food and Drug Administration
Chief Drug Master File Staff
12229 Wilkins Avenue
Rockville, MD 20852**

PCI is engaged in the packaging and labeling of pharmaceutical products as a contracting services firm. PCI is registered with the Food and Drug Administration as follows:

[]

2530802

9/16-17/1999

032618

Packaging Coordinators, Inc.
3001 Red Lion Road
Philadelphia, PA 19114

Mary Foster, Pharm D, Vice President

Corporate Quality Assurance/Regulatory Affairs
(215) 612-1526

Pharmaceutical Product Name: Minocycline Periodontal Therapeutic System.

Packaging Operation: Primary and secondary packout.

- Under Section 306 (a) (2) and (b) (1) Packaging Coordinators, Inc. hereby certifies that we have not and will not use in any capacity the services of any person debarred under section 306 of the Federal Food Drug and Cosmetic Act in connection with this application.

It is understood that the information in DMF Number 11520 shall be treated as confidential.

Date _____

cc: Paul Alvater, President of Contract Services, PCI
J. Welch, Sales, PCI

3001 RED LION ROAD • PHILADELPHIA, PENNSYLVANIA 19114-1123 • (215) 637-8100 • FAX (215) 281-9190

Packaging Coordinators, Inc., a Cardinal Health company

WITHHOLD 4 PAGE (S)

Review of Financial Information

2. Slots J, Rams TE. 1990. Antibiotics in periodontal therapy: advantages and disadvantages. J Clin Periodontol 17: 479-493.

Financial Disclosure:

The Sponsor has provided the required certification (Form FDA 3454) regarding financial interests and arrangements of clinical investigators. The Sponsor has certified that the value of compensation to the investigator was not influenced by the outcome of the study. One investigator has received a \$1000/ month consulting retainer since February 1997. Four other investigators had stock or stock options in OraPharma valued at over \$100,000 each, based on the stock price at the time of this review. The Biostatistics reviewer was asked to re-evaluate those sites to determine if there was anything unusual about the reported results and to assess the impact of those sites on the overall studies. In one instance, San Antonio (Study 103A), the mean baseline pocket depth for the active arm was the highest among all sites in the study and the mean baseline pocket depth for the S/RP arm was the lowest among all sites. Since we know that the deeper the pocket at baseline, the better the response is expected to be, the situation described would likely favor the active arm. In fact, the delta between the active and S/RP arms at that site was the second highest among all sites in that study. If that site is dropped from the analysis, the p-value for the comparison goes from .047 to .237. This site did enroll a large number subjects, so dropping it would be expected to have some effect on the p-value, but it seems unlikely that the change would be so dramatic based on the number of subjects alone. Based on the unusual nature of the data and the fact that the investigator received substantial compensation, the Division has asked the Division of Scientific Investigations (DSI) to audit the site prior to making a final decision about the approvability of this NDA.

Pediatric Waiver:

Adult periodontitis, as its name indicates, affects only adults, so no studies in children are indicated.

Recommendation:

NDA 50-781 for ARESTIN™ (minocycline hydrochloride), Microspheres, 1 mg is approvable with the labeling changes recommended above, contingent upon the DSI audit of the San Antonio site not resulting in the disqualification of the data from that site.

/S/ Clarence C. Gilkes, D.D.S. 12-18-00

for DFS 12/18/00

Original to NDA 50-781

INTEREST INFORMATION

OraPharma, Inc.
732 Louis Drive
Warminster, PA 18974
215-956-2200
Facsimile: 215-443-9531


ORAPHARMA INC.

FAX COVER SHEET

To:	Ms. Kalyani Bhatt, Project Manager	From:	Markus Herzig
Company:	FDA	Date:	November 16, 2000
Fax No.:	301-827-2075	No. of pages w/cover:	5
RE:	NDA-50-781		

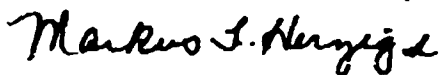
☒ Urgent ☐ Reply ASAP ☐ Please comment ☐ Please review ☐ For your information

Ms. Bhatt:

Attached is the corrected form FDA 3454.

If you need any additional information, please don't hesitate to contact me.

Sincerely,



Markus F. Herzig
Executive Director Regulatory Affairs

This facsimile contains confidential information intended for the person(s) named above. If you have received this facsimile in error, please notify us immediately by telephone and destroy this transmission.



ORAPHARMA, INC.

www.orapharma.com

732 Louis Drive
Warminster, PA 18974

215-956-2200 Tel
215-443-9531 Fax

November 16, 2000

Jonathan K. Wilkin, MD
Director, Division of Dermatological and Dental Drug-Products (HFD-540)
Center for Drug Evaluation & Research
Food and Drug Administration
Document Control Room
9201 Corporate Boulevard
Rockville, MD 20850

RE: NDA 50-781
Minocycline PTS
Amendment: Requested Financial Interest Information

Dear Dr. Wilkin:

Enclosed is the corrected form FDA 3454 as requested by Ms. Bhatt.

If you have any questions regarding this submission, please contact me at (215) 956-2207.

Sincerely,

Markus F. Herzig

Markus F. Herzig
Executive Director, Regulatory Affairs and Quality Assurance

Form FDA 356h
Submitted in duplicate

CERTIFICATION: FINANCIAL INTERESTS AND ARRANGEMENTS OF CLINICAL INVESTIGATORS

TO BE COMPLETED BY APPLICANT

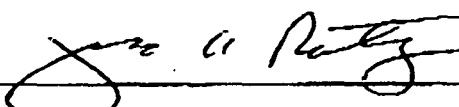
With respect to all covered clinical studies (or specific clinical studies listed below (if appropriate)) submitted in support of this application, I certify to one of the statements below as appropriate. I understand that this certification is made in compliance with 21 CFR part 54 and that for the purposes of this statement, a clinical investigator includes the spouse and each dependent child of the investigator as defined in 21 CFR 54.2(d).

Please mark the applicable checkbox.

- ☒ (1) As the sponsor of the submitted studies, I certify that I have not entered into any financial arrangement with the listed clinical investigators (enter names of clinical investigators below or attach list of names to this form) whereby the value of compensation to the investigator could be affected by the outcome of the study as defined in 21 CFR 54.2(a). I also certify that each listed clinical investigator required to disclose to the sponsor whether the investigator had a proprietary interest in this product or a significant equity in the sponsor as defined in 21 CFR 54.2(b) did not disclose any such interests. I further certify that no listed investigator was the recipient of significant payments of other sorts as defined in 21 CFR 54.2(f).

Clinical Investigators		
	See Attachments 3 and 4	

- ☐ (2) As the applicant who is submitting a study or studies sponsored by a firm or party other than the applicant, I certify that based on information obtained from the sponsor or from participating clinical investigators, the listed clinical investigators (attach list of names to this form) did not participate in any financial arrangement with the sponsor of a covered study whereby the value of compensation to the investigator for conducting the study could be affected by the outcome of the study (as defined in 21 CFR 54.2(a)); had no proprietary interest in this product or significant equity interest in the sponsor of the covered study (as defined in 21 CFR 54.2(b)); and was not the recipient of significant payments of other sorts (as defined in 21 CFR 54.2(f)).
- ☐ (3) As the applicant who is submitting a study or studies sponsored by a firm or party other than the applicant, I certify that I have acted with due diligence to obtain from the listed clinical investigators (attach list of names) or from the sponsor the information required under 54.4 and it was not possible to do so. The reason why this information could not be obtained is attached.

NAME	James A. Ratigan	TITLE	Chief Financial Officer
FIRM/ORGANIZATION	OraPharma, Inc.		
SIGNATURE			DATE
			1-24-00

Paperwork Reduction Act Statement

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Public reporting burden for this collection of information is estimated to average 1 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the necessary data, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to the address to the right:

Department of Health and Human Services
Food and Drug Administration
5600 Fishers Lane, Room 14C-03
Rockville, MD 20857

DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

Form Approved: OMB No. 0910-0338
Expiration Date: April 30, 2000
See OMB Statement on page 2.

APPLICATION TO MARKET A NEW DRUG, BIOLOGIC,
OR AN ANTIBIOTIC DRUG FOR HUMAN USE

(Title 21, Code of Federal Regulations, 314 & 601)

FOR FDA USE ONLY
APPLICATION NUMBER

APPLICANT INFORMATION

NAME OF APPLICANT OraPharma, Inc.	DATE OF SUBMISSION November 16, 2000
TELEPHONE NO. (Include Area Code) 215-956-2200	FACSIMILE (FAX) Number (Include Area Code) 215-443-9531
APPLICANT ADDRESS (Number, Street, City, State, Country, ZIP Code or Mail Code, and U.S. License number if previously issued): 732 Louis Drive Warminster, PA 18974	AUTHORIZED U.S. AGENT NAME & ADDRESS (Number, Street, City, State, ZIP Code, telephone & FAX number) IF APPLICABLE Markus F. Herzig 732 Louis Drive Warminster, PA 18974

PRODUCT DESCRIPTION

NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR BIOLOGICS LICENSE APPLICATION NUMBER (if previously issued) 50-781		
ESTABLISHED NAME (e.g., Proper name, USP/USAN name) Minocycline PTS (Minocycline Periodontal Therapeutic System)	PROPRIETARY NAME (trade name) IF ANY ARESTIN™	
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (if any) 7 - dimethylamine - 6 - demethyl - 6 - deoxytetracycline hydrochloride	CODE NAME (if any) --	
DOSAGE FORM: topical	STRENGTHS: 1 mg	ROUTE OF ADMINISTRATION: Sublingival
(PROPOSED) INDICATION(S) FOR USE: Adjunctive therapy to scaling and root planing procedures in patients with adult periodontitis		

APPLICATION INFORMATION

APPLICATION TYPE (check one)			
<input checked="" type="checkbox"/> NEW DRUG APPLICATION (21 CFR 314.50)		<input type="checkbox"/> ABBREVIATED APPLICATION (ANDA, AADA, 21 CFR 314.94)	
<input type="checkbox"/> BIOLOGICS LICENSE APPLICATION (21 CFR part 601)			
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE <input checked="" type="checkbox"/> 505 (b) (1) <input type="checkbox"/> 505 (b) (2) <input type="checkbox"/> 507			
IF AN ANDA, OR AADA, IDENTIFY THE REFERENCE LISTED DRUG PRODUCT THAT IS THE BASIS FOR THE SUBMISSION Name of Drug _____ Holder of Approved Application _____			
TYPE OF SUBMISSION (check one)			
<input type="checkbox"/> ORIGINAL APPLICATION		<input checked="" type="checkbox"/> AMENDMENT TO A PENDING APPLICATION	
<input type="checkbox"/> PRESUBMISSION		<input type="checkbox"/> RESUBMISSION	
<input type="checkbox"/> ANNUAL REPORT		<input type="checkbox"/> ESTABLISHMENT DESCRIPTION SUPPLEMENT	
<input type="checkbox"/> EFFICACY SUPPLEMENT		<input type="checkbox"/> SUPAC SUPPLEMENT	
<input type="checkbox"/> LABELING SUPPLEMENT		<input type="checkbox"/> CHEMISTRY MANUFACTURING AND CONTROLS SUPPLEMENT	
<input type="checkbox"/> OTHER			

REASON FOR SUBMISSION Requested Information

PROPOSED MARKETING STATUS (check one)	<input checked="" type="checkbox"/> PRESCRIPTION PRODUCT (Rx)	<input type="checkbox"/> OVER THE COUNTER PRODUCT (OTC)
NUMBER OF VOLUMES SUBMITTED _____	THIS APPLICATION IS <input checked="" type="checkbox"/> PAPER <input type="checkbox"/> PAPER AND ELECTRONIC <input type="checkbox"/> ELECTRONIC	

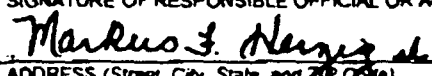
ESTABLISHMENT INFORMATION

Provide locations of all manufacturing, packaging and control sites for drug substance and drug product (continuation sheets may be used if necessary). Include name, address, contact, telephone number, registration number (CFN), DMF number, and manufacturing steps and type of testing (e.g. Final dosage form, Stability testing) conducted at the site. Please indicate whether the site is ready for inspection or, if not, when it will be ready.

NA

Cross References (list related License Applications, INDs, NDAs, PMAs, 510(k)s, IDEs, BMFs, and DMFs referenced in the current application)

NA

This application contains the following items: (Check all that apply)		
<input type="checkbox"/>	1. Index	
<input type="checkbox"/>	2. Labeling (check one)	<input checked="" type="checkbox"/> Draft Labeling <input type="checkbox"/> Final Printed Labeling
<input type="checkbox"/>	3. Summary (21 CFR 314.50(c))	
<input type="checkbox"/>	4. Chemistry section	
<input type="checkbox"/>	A. Chemistry, manufacturing, and controls information (e.g. 21 CFR 314.50(d) (1), 21 CFR 601.2)	
<input type="checkbox"/>	B. Samples (21 CFR 314.50 (e) (1), 21 CFR 601.2 (a)) (Submit only upon FDA's request)	
<input type="checkbox"/>	C. Methods validation package (e.g. 21 CFR 314.50 (e) (2) (i), 21 CFR 601.2)	
<input type="checkbox"/>	5. Nonclinical pharmacology and toxicology section (e.g. 21 CFR 314.50 (d) (2), 21 CFR 601.2)	
<input type="checkbox"/>	6. Human pharmacokinetics and bioavailability section (e.g. 21 CFR 314.50 (d) (3), 21 CFR 601.2)	
<input type="checkbox"/>	7. Clinical Microbiology (e.g. 21 CFR 314.50 (d) (4))	
<input type="checkbox"/>	8. Clinical data section (e.g. 21 CFR 314.50 (d) (5), 21 CFR 601.2)	
<input type="checkbox"/>	9. Safety update report (e.g. 21 CFR 314.50 (d) (5) (vi) (b), 21 CFR 601.2)	
<input type="checkbox"/>	10. Statistical section (e.g. 21 CFR 314.50 (d) (6), 21 CFR 601.2)	
<input type="checkbox"/>	11. Case report tabulations (e.g. 21 CFR 314.50 (f) (1), 21 CFR 601.2)	
<input type="checkbox"/>	12. Case report forms (e.g. 21 CFR 314.50 (f) (2), 21 CFR 601.2)	
<input type="checkbox"/>	13. Patent information on any patent which claims the drug (21 U.S.C. 355 (b) or (c))	
<input type="checkbox"/>	14. A patent certification with respect to any patent which claims the drug (21 U.S.C. 355 (b), (2) or (j) (2) (A))	
<input type="checkbox"/>	15. Establishment description (21 CFR Part 600, if applicable)	
<input type="checkbox"/>	16. Debarment certification (FD&C Act 306 (k) (1))	
<input type="checkbox"/>	17. Field copy certification (21 CFR 314.50(k) (3))	
<input type="checkbox"/>	18. User Fee Cover Sheet (Form FDA 3397)	
<input checked="" type="checkbox"/>	19. OTHER (Specify) Certification: Financial Interest and Arrangements of Clinical Investigators	
CERTIFICATION		
<p>I agree to update this application with new safety information about the product that may reasonably affect the statement of contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or as requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:</p> <ol style="list-style-type: none"> 1. Good manufacturing practice regulations in 21 CFR 210 and 211, 606, and/or 820. 2. Biological establishment standards in 21 CFR Part 600. 3. Labeling regulations in 21 CFR 201, 606, 610, 660 and/or 809. 4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202. 5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99, and 601.12. 6. Regulations on Reports in 21 CFR 314.80, 314.81, 600.80 and 600.81. 7. Local, state and Federal environmental impact laws. <p>If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act, I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.</p> <p>The data and information in this submission have been reviewed and, to the best of my knowledge are certified to be true and accurate.</p> <p>Warning: a willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.</p>		
SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT		DATE
 Markus F. Herzig, Executive Director - Regulatory Affairs and Quality Assurance		November 16, 2000
ADDRESS (Street, City, State, and Zip Code)		TELEPHONE NUMBER
732 Louis Drive Warminster, PA 18974		215-956-2200
<p>Public reporting burden for this collection of information is estimated to average 40 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:</p> <p> DHHS, Reports Clearance Officer Paperwork Reduction Project (0910-0338) Hubert H. Humphrey Building, Room 531-H 200 Independence Avenue, S.W. Washington, DC 20201 </p> <p>An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.</p>		
Please DO NOT RETURN this form to this address: --		

§54 FINANCIAL DISCLOSURE BY CLINICAL INVESTIGATORS

The following information in this section:

1. A signed form FDA 3454 by OraPharma, Inc. Chief Financial Officer.
2. A disclosure of Financial Interests of Principal and Subinvestigators who participated in the Phase 3 Pivotal Trials.
3. A list of all Principal and Subinvestigators who participated in the Pivotal Studies.
4. A signed Financial Certificate form for each Principal Investigator.

Attachment 1

CERTIFICATION: FINANCIAL INTERESTS AND ARRANGEMENTS OF CLINICAL INVESTIGATORS

TO BE COMPLETED BY APPLICANT

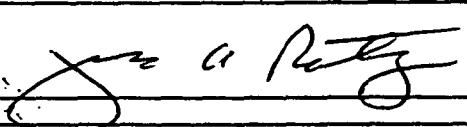
With respect to all covered clinical studies (or specific clinical studies listed below (if appropriate)) submitted in support of this application, I certify to one of the statements below as appropriate. I understand that this certification is made in compliance with 21 CFR part 54 and that for the purposes of this statement, a clinical investigator includes the spouse and each dependent child of the investigator as defined in 21 CFR 54.2(d).

Please mark the applicable checkbox.

- ☐ (1) As the sponsor of the submitted studies, I certify that I have not entered into any financial arrangement with the listed clinical investigators (enter names of clinical investigators below or attach list of names to this form) whereby the value of compensation to the investigator could be affected by the outcome of the study as defined in 21 CFR 54.2(a). I also certify that each listed clinical investigator required to disclose to the sponsor whether the investigator had a proprietary interest in this product or a significant equity in the sponsor as defined in 21 CFR 54.2(b) did not disclose any such interest. I further certify that no listed investigator was the recipient of significant payments of other sorts as defined in 21 CFR 54.2(f).

Clinical Investigators		
	See Attachments 3 and 4	

- ☐ (2) As the applicant who is submitting a study or studies sponsored by a firm or party other than the applicant, I certify that based on information obtained from the sponsor or from participating clinical investigators, the listed clinical investigators (attach list of names to this form) did not participate in any financial arrangement with the sponsor of a covered study whereby the value of compensation to the investigator for conducting the study could be affected by the outcome of the study (as defined in 21 CFR 54.2(a)); had no proprietary interest in this product or significant equity interest in the sponsor of the covered study (as defined in 21 CFR 54.2(b)); and was not the recipient of significant payments of other sorts (as defined in 21 CFR 54.2(f)).
- ☐ (3) As the applicant who is submitting a study or studies sponsored by a firm or party other than the applicant, I certify that I have acted with due diligence to obtain from the listed clinical investigators (attach list of names) or from the sponsor the information required under 54.4 and it was not possible to do so. The reason why this information could not be obtained is attached.

NAME James A. Ratigan	TITLE Chief Financial Officer
FIRM/ORGANIZATION OraPharma, Inc.	
SIGNATURE 	DATE 1-24-00

Paperwork Reduction Act Statement

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Department of Health and Human Services
Food and Drug Administration
5600 Fishers Lane, Room 14C-03
Rockville, MD 20857

Attachment 2

<u>Total number of shares and stock options held</u>	<u>Fully Diluted % Ownership Interest</u>
--	---

Principal Investigators

Thomas E. Van Dyke, DDS, PhD
Department of Periodontology
Goldman School of dental Medicine
Boston University
100 E. Newton Street, Suite
207
Boston, MA 02118-2392

David L. Cochran, DDS
Department of Periodontology
Health Science Center at San Antonio
University of Texas
7703 Floyd Drive
San Antonio, TX 78284-7894

Sub-Investigators

Attachment 3

Financial Disclosure by Clinical Investigators

List of all principal- and sub-investigators: Investigators with financial interests in OraPharma, Inc. appear **bolded**.

Principal Investigators

Connie L. Drisko, DDS
Department of Periodontics, Endodontics and
Dental Hygiene
School of Dentistry
University of Louisville
501 South Preston, Room 236
Louisville, KY 40292

Robert J. Genco, DDS, PhD
Department of Oral Biology
School of Dental Medicine
State University of New York at Buffalo
120 Foster Hall
3435 Main Street
Buffalo, NY 14214-3092

William Killroy, DDS, MS & John W. Rapley, DDS, MS (Co-principal PI)
Department of Periodontology
School of Dentistry
University of Missouri at Kansas City
650 East 25th Street
Kansas City, MO 64108

Ira B. Lamster, DDS, MMSc
Department of Periodontology
School of Dental and Oral Surgery
Columbia University
630 West 168th Street, PH-7E-110
New York, NY 10032

Sub-Investigators

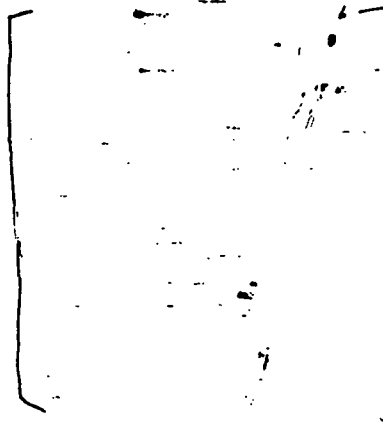
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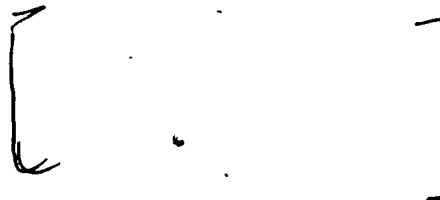
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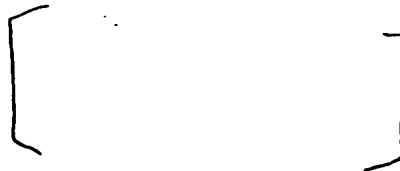
David W. Paquette, DDS, MPH, DMSc
Department of Periodontology
School of Dentistry
University of North Carolina at Chapel Hill
Brauer Hall, CB#7450
Chapel Hill, NC 27599-7450



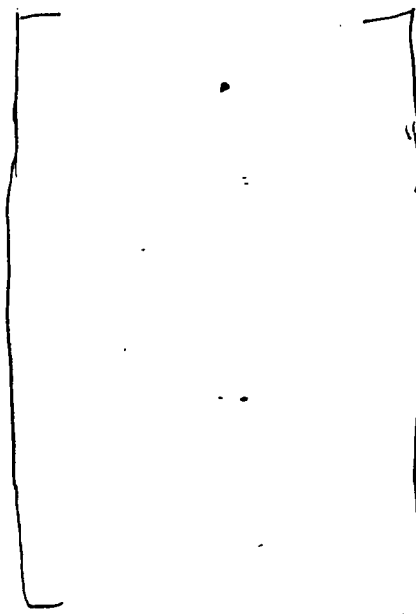
Thomas E. VanDyke, DDS, PhD
Department of Periodontology
Goldman School of Dental Medicine
Boston University
100 E. Newton Street, Suite 207
Boston, MA 02118-2392



Jack G. Caton, DDS, MS
Department of Periodontology
Eastman Dental Center
University of Rochester
625 Elmwood Avenue
Rochester, NY 14620



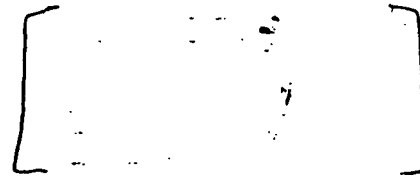
David L. Cochran, DDS
Department of Periodontology
Health Science Center at San Antonio
University of Texas
7703 Floyd Drive
San Antonio, TX 78284-7894



Joseph P. Fiorellini, DMD, DMSc
Department of Periodontology
Harvard School of Dental Medicine
188 Longwood Avenue
Boston, MA 02115



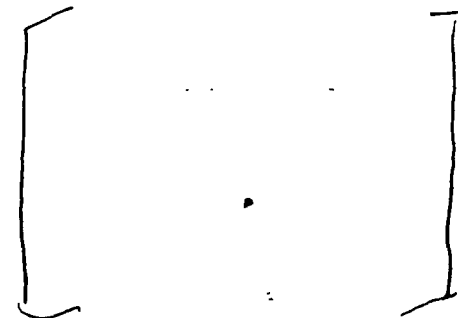
Richard J. Oringer, DDS, DMSc
Department of Periodontics
School of Dental Medicine
State University of New York at Stony Brook
B-530 Health Science Center
Stony Brook, NY 11794-8703



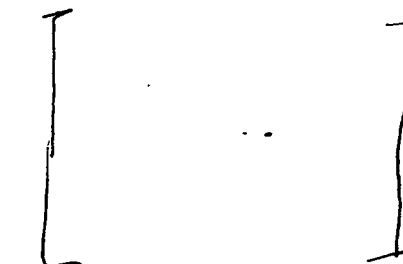
Georgia K. Johnson, DDS, MS
University of Iowa
Dental Science Building, S452
Iowa City, IA 52242



N. Ingvar Magnusson, DDS
Department of Oral Biology
University of Florida
1600 SW Archer Road
Gainesville, FL 32610



Sigmund Socransky, DMD
Department of Periodontology
Forsyth Dental Center
140 The Fenway
Boston, MA 02115



Larry L. Wolff, DDS, PhD
Division of Periodontology
School of Dentistry
University of Minnesota
17-164 Moos Tower
515 Delaware Street, SE
Minneapolis, MN 55455

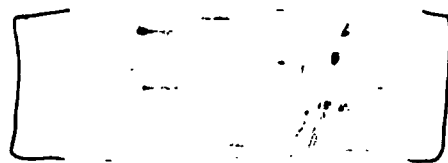
G. Rutger Persson, DDS
Department of Periodontics
School of Dentistry
University of Washington
Box 357444
D-522 Health Science Building
Seattle, WA 98195-7444

Donald F. Adams, DDS, MS
Department of Periodontology
School of Dentistry
Oregon Health Science University
611 Southwest Campus Drive
Portland, OR 97201

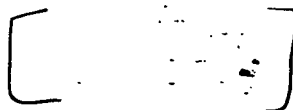
Gary C. Armitage, DDS, MS
Division of Periodontology
School of Dentistry, Dept. of Stomatology
University of California, San Francisco
521 Parnassus Avenue, Box 0650
San Francisco, CA 94143

William V. Giannobile, DDS, DMSc
Department of Periodontics
School of Dentistry
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1011 North University Avenue
Ann Arbor, MI 48109-1075

Richard A. Reinhardt, DDS, PhD
College of Dentistry
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Lincoln, NE 68583-0757



John W. Dean III, DDS, PhD
Department of Periodontology
School of Dental Medicine
University of Connecticut Health Center
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John C. Gunsolley, DDS, MS
Department of Periodontology
University of Maryland Dental School
666 West Baltimore Street
Baltimore, MD 21201



Thomas C. Hart, DDS, PhD
Department of Dentistry
Bowman Gray School of Medicine
Wake Forest University
Medical Center Boulevard
Salem, NC 27175



Bernard D. Shapiro, DDS
65 Garden Street
Wethersfield, CT 06109




Attachment 4

Clinical Investigator Financial Certification

This information below is provided in accordance with 21 CFR Part 54 in regard to the following clinical study.

OraPharma, Inc. Pharmaceutical Company
Minocycline Periodontal Therapeutic System Investigating Product
Multicenter Phase III Trial of Minocycline Periodontal Therapeutic System (Minocycline PTS): Adjunctive Use in Patients with Adult Periodontitis (OPI-103A & B) Title of Study/Protocol #
Dr. Gary Armitage Investigator

Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Do you, your spouse or dependent children have a financial arrangement with OraPharma, Inc., whereby the value of compensation to you, your spouse or dependent children could be influenced by the outcome of the study? This includes compensation that could be greater for a favorable clinical result, compensation in the form of an equity interest in OraPharma, Inc. or compensation tied to sales of the product tested in the above study such as a royalty interest. If yes, the nature of the financial arrangement is as follows:
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To the best of my knowledge, the information provided above is correct and complete. I understand that I am obligated to amend this statement and notify OraPharma, Inc. promptly if there is any change in this information during the conduct of the clinical studies listed above or during one year after the studies have been completed.		
 Signature of Investigator		Sept 5, 1999 Date

Clinical Investigator Financial Certification

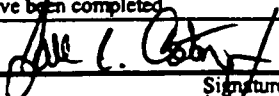
This information below is provided in accordance with 21 CFR Part 54 in regard to the following clinical study.

OraPharma, Inc.
Pharmaceutical Company

Minocycline Periodontal Therapeutic System
Investigating Product

Multicenter Phase III Trial of Minocycline Periodontal
Therapeutic System (Minocycline PTS): Adjunctive Use in
Patients with Adult Periodontitis (OPI-103A & B)
Title of Study/Protocol #

Dr. Jack Caton
Investigator

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 Signature of Investigator		9/3/99 Date

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Pharmaceutical Company

Minocycline Periodontal Therapeutic System

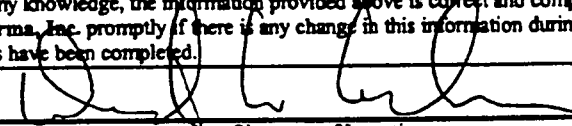
Investigating Product

**Multicenter Phase III Trial of Minocycline Periodontal
Therapeutic System (Minocycline PTS): Adjunctive Use in
Patients with Adult Periodontitis (OPI-103A & B)**

Title of Study/Protocol #

Dr. David Cochran

Investigator

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 Signature of Investigator		10/8/99 Date

Clinical Investigator Financial Certification

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Pharmaceutical Company

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Investigating Product

**Multicenter Phase III Trial of Minocycline Periodontal
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Title of Study/Protocol #

Dr. Joseph Fiorellini
Investigator

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Signature of Investigator

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Dr. William Giannobile
Investigator

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Signature of Investigator

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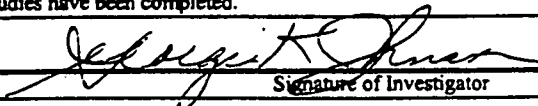
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Title of Study/Protocol #

Dr. Georgia Johnson
Investigator

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